

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-6. (Canceled)

3/9/07
OK to be
patented

7. (Original): A laser driver for producing the waveform of a driving signal, which is used to drive a laser diode, according to a record data signal that represents record data to be recorded on a recording medium, and a recording clock, comprising:
a recording clock inverter configured to invert a phase of a received recording clock; and
a phase error detector configured to detect a phase error between a strobing clock used to strobe the record data signal and the record data signal;
wherein when a phase difference between an edge of the record data signal and a strobing edge of the strobing clock becomes equal to or smaller than a predetermined value, said recording clock inverter inverts the recording clock.

8. (Original): A laser driver according to claim 7, wherein when the phase of the recording clock is inverted, a shift value representing the magnitude of a shift by which the timing of the edge of a record pulse is shifted equal to about a half of the cycle of the recording clock is added to or subtracted from a control value based on which the timing of the edge of the record pulse is controlled.

9. (Original): An optical disk system including the laser driver according to claim 7, further comprising a sample-and-hold circuit configured to sample and hold a waveform of a signal to be recorded on a recording medium or a waveform of a signal to be regenerated from a recording medium; and wherein a control signal, based on which a phase of a recording clock or a strobing clock is changed by substantially 180°, is used to substantially cause a 180° change to the sampling timing at which said sample-and-hold circuit samples a waveform.